







NOVEL-900 UV/Vis Scanning Spectrophotometer 190-1100nm

Double Beam, 0.5nm, 1nm, 2nm, 4nm, 5nm

-  LCD Touch Screen
-  Auto Scanning
-  Double Beam
-  Smart WI FI

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Catalogue



The NOVEL-900 dual-beam UV-visible spectrophotometer adopts a brand-new optical platform, 5-band adjustable bandwidth, ARM chip to control and process data, 8-inch color touch screen to display menus, spectrograms and analysis test data, easy to operate with human-computer interaction. Having a photometric instrument, automatic scanning spectral measurement, quantitative, kinetic point's analysis, multi-wavelength measurement functions. The products are widely used in the fields of drug inspection, medicine and health, biochemistry, environmental monitoring, commodity inspection, petrochemical industry, etc. It is the basic equipment necessary for quality control, technical identification and scientific research institutes.

Main features:

- The new optical platform makes the main unit of the instrument have excellent optical performance and photometric performance, low stray light and noise, and high photometric accuracy and stability.
- Unique deuterium lamp and tungsten lamp installation, automatic switching of light source and automatic search for the best position, which makes it more convenient, correct and safe for users to operate the instrument and maintain and replace the light source
- Advanced hardware and software design make the instrument have strong spectral data processing and storage functions. Automatic scanning measurement spectrum, multi-wavelength (1-3λ) determination, kinetic determination, 1-3 curve fitting, 1-4 order derivative spectrum, access to print spectrogram and analysis data.
- Long-life deuterium lamp and tungsten lamp
- USB communication port,
- Standard 1cm cuvette holder.

Option:

- UVwin8 UV spectroscopy software
- 5cm or 10cm cuvette holder
- With an additional 10.1-inch tablet computer, wireless control of NOVEL-900, mass data storage and wireless data transmission can be realized.
- Smart phone



Wi Fi UV Lamp control - option

To ensure a longer lifespan of the UV lamp, with a built-in WI FI control connection, you can turn it on or off separately via your android device or by touch screen



LCD Touch Screen Digital Display

10,1 inch capacitive touch screen, to display curve, import test data, setting parameters



Professional Software

Professional NOVEL-900 Software is a standard configuration



Manual or Automatic Cell Holder

From micro cell to macro cell 100mm large 4 or 8 places manual or automatic cell change control



Human Interface with Help menu

Built in help menu provide shortcut to the important information about main instruments parameter

Type	NOVEL-900
Price	
Optical System	Proportional dual beam, Optical grating 1600 lines/mm
Wavelength Range nm	190-1100nm
Monochromator	Czerny-Turner
Focal Len	200mm
Spectral Bandwidth nm	0.5nm, 1nm, 2nm, 4nm, 5nm
Wavelength resolution	<1nm
Wavelength Accuracy	<0,3nm
Wavelength Repeatability	<0,1nm
Photometric Accuracy	<0,2%T (0~100%T), ±0.002A(0-0.5A), ±0.004A(0.5-1A)
Photometric Repeatability	<0,1%T (0-100%T), 0.001A(0-0.5A), 0.002A(0.5-1A)
Photometric Range	0-200%T, ±3A
Stray Light	≤ 0.01% (T) (measured with NaNO ₂ at 360nm))
Stability	≤±0,0003A/h at 500nm
Baseline Flatness	±0.001A
Noise	±0,0005 A at 500nm
Baseline Straightness	≤ ± 0.0008A (200nm ~ 1090nm)
Baseline Drift	0,0003 (A / h) measured at wavelengths of 250nm and 500nm (2 hours warm-up after start-up)
Wavelength Setting	Auto
Work Mode	T, A, C, E Multi-Function - Photometric, Quantitative, Spectral Scanning, Kinetics, DNA/protein...
Light Source	Pre aligned Lamp/D2 Lamp (automatic swich over) /12V 20V Tungsten-Halogen
Wavelength scanning speed	fast, medium and slow (1nm increments)
Display	10.1" TFT Color Capacitive Touch Screen
Detector	
Output	USB/RS232
Power	AC220V ± 22V 50Hz ± 1Hz 200W
Instrument Size	590*475*250mm
Packing Size	740*630*450mm (0.21 cbm)
Gross weight / Net Weight (kg)	28/35
Standard Configuration	Spectrophotometer with Euro plug power cable, 4 pcs glass cuvette, 2 pc quartz cuvette, Instruction manual,



Single hole film holder



Auto 8-cell holder



single hole cell holder-10mm



Manual 4-position film holder



Integrating Sphere



Manual 4-cell holder-100mm



Adjustable XY micro cell holder



Tube rack



Peltier/Sipper system

Optional Accessories:

- Flow cell
- Peltier/Sipper system
- Tube rack
- Adjustable XY micro cell holder
- Integrating Sphere
- Manual 4- position film holder
- Single hole film holder
- Manual 4 cell holder up to 100mm
- Single hole cell holder – 10mm
- Auto 8-cell holder

Please note

If this Spectrophotometer does not match the specific needs of your application, or some options are not listed for sale, please feel free to contact us. Our manufacturing engineers will come up with technical solutions to meet your needs. We reserve the right to change technical specifications at any time.

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